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A New Species of the Genus *Tetragnatha* (Araneae: Tetragnathidae) from Iriomotejima-Island, Japan*

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大熊千代子[1)]：西表島産アシナガグモ属（クモ目：アシナガグモ科）の１新種*

Abstract: A new species, *Tetragnatha iriomotensis*, is described from Iriomotejima-Island, Japan.

In this paper a new species *Tetragnatha iriomotensis* is described from Iriomotejima-Island, Japan.

I wish to express my sincere gratitude to Professor Emeritus Y. HIRASHIMA of Kyushu University for his continuous guidance and to Professor K. MORIMOTO of Kyushu University for reading the manuscript of this paper. The author is also indebted to Mr. A. TANIKAWA for offering the interesting materials.

Tetragnatha iriomotensis sp. nov.

(Japanese name: Iriomote-asinagagumo)

(Figs. 1 and 2)

MALE. Body length, exclusive of chelicerae, 6.6–7.2 mm; carapacial length 2.2–2.4 mm, width 1.1–1.35 mm; abdominal length 4.5–5.0 mm, width 1.0–1.1 mm; cheliceral length 1.2–1.25 mm.

Eyes. Posterior row of eyes slightly narrower than anterior row of eyes (97:100); viewed from above, the two rows nearly parallel and gently recurved; central ocular quadrangle with posterior ocular width slightly wider than anterior one width (110:100); ratio of diameter of AME:ALE:PME:PLE as 100:55:64:64.

Chelicerae. Basal segment slightly longer than one-half of carapace; (a) not bifurcate at tip; (sl) directed somewhat forward; (T) not so large, (rsu) 4–5 in the number; (rsl) 6–7 in the number; fang unarmed.

Legs. Leg formula 1.2.4.3; all legs with spines, first femur with 5–7 spines; lengths (mm)

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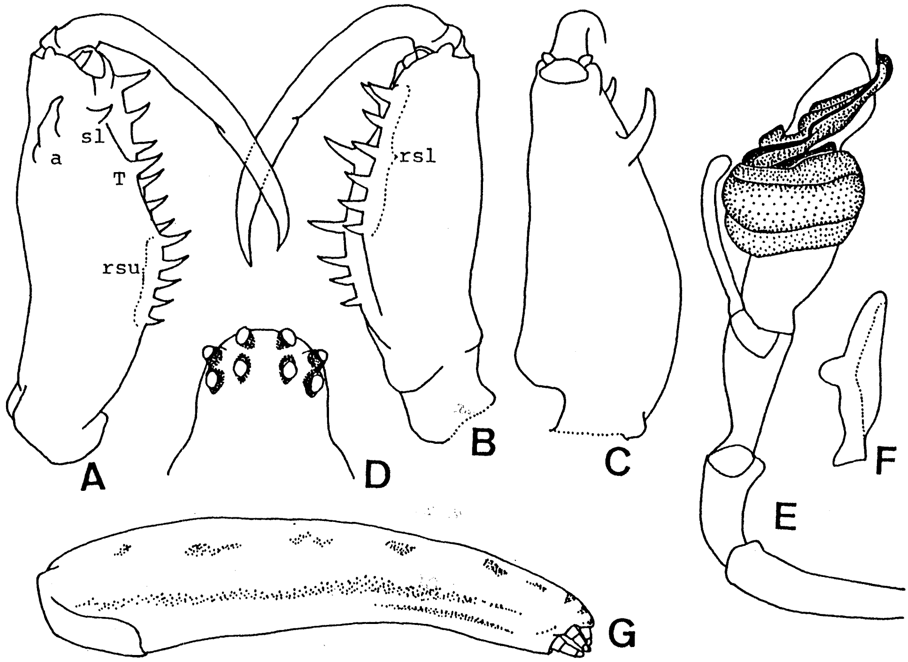

Fig. 1 *Tetragnatha iriomotensis* sp. nov. (male). A: Left chelicera, upper view. B: Ditto, lower view. C: Ditto, lateral view. D: Eye group. E: Right palpus. F: Paracymbium. G: Abdomen, lateral view.

of legs as follows:

Legs	Femur	Patella + Tibia	Metatarsus	Tarsus	Total
I	6.20–6.55	8.00–8.10	7.80–7.90	1.60–1.65	23.70–24.05
II	4.40–4.55	5.00–5.20	4.50–4.55	1.05–1.10	14.95–15.40
III	2.30–2.40	1.90–1.95	1.75–1.80	0.60–0.70	6.60– 6.80
IV	4.30–4.60	4.20–4.35	4.00–4.10	0.90	13.40–13.95

Palpi. Paracymbium bluntly rounded at tip; distal end of conductor unique as shown in Fig. 1, E.

Abdomen. Long, about 4.5 times as long as broad, not extended posteriorly to spinnerets

Color in alcohol. Generally pale grayish brown; Abdomen with blackish spots dorsally and blackish stripes laterally; venter somewhat dark.

FEMALE. Body length, exclusive of chelicerae, 8.0–8.6 mm; carapacial length 2.3–2.4 mm, width 1.4–1.6 mm; abdominal length 5.9–6.4 mm, width 1.5–1.8 mm; cheliceral length 1.0–1.1 mm.

Eyes. Anterior row and posterior row of eyes about equal in width; others nearly as in male.

Chelicerae. Basal segment slightly shorter than one-half of carapace; (Gu) small, (T)

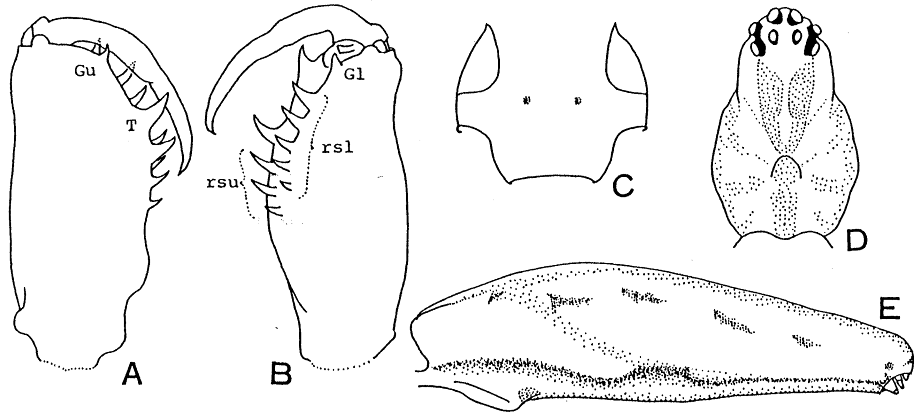

Fig. 2 *Tetragnatha iriomotensis* sp. nov. (female). A: Left chelicera, upper view. B: Ditto, lower view. C: Genital fold. D: Carapace, upper view. E: Abdomen, lateral view.

somewhat large, (rsu) 3–4 in the number; (Gl) somewhat small, (rsl) 5–6 in the number: fang unarmed.

Legs. Leg formula 1.2.4.3; all legs with spines, first femora with 3–4 spines; lengths (mm) of legs as follows:

Legs	Femur	Patella + Tibia	Metatarsus	Tarsus	Total
I	6.00–6.40	7.40–7.90	7.00–7.70	1.50–1.60	22.05–23.60
II	4.20–4.55	4.65–5.05	4.00–4.50	1.00–1.10	13.90–15.20
III	2.20–2.55	1.80–2.00	1.55–1.80	0.60–0.70	6.15– 7.05
IV	4.30–4.70	3.90–4.15	3.70–4.15	0.85–0.95	12.75–13.95

Abdomen. Moderately long, about 3.5 times as long as broad, not extended posteriorly to spinnerets; genital fold as shown in Fig. 2, C.

Color in alcohol. Similar to male but carapace and abdomen with more conspicuous markings as shown in Fig. 2, D and E.

Holotype: ♂ (Type No. 2867, Kyushu University), Otomi, Iriomotejima-Island, 2.I.1989, A. TANIKAWA leg. Paratypes: the same locality as holotype, 1 ♀, 27.XII.1989, and 2♂♂ and 2 ♀♀, 2.I.1991, all specimens were collected by A. TANIKAWA.

Type depository: The holotype is in the collection of the Entomological Laboratory, Faculty of Agriculture, Kyushu University.

Distribution: Iriomotejima-Island, Japan.

Note. The new species is related to *T. maxillosa* THORELL, 1875, but it may easily be distinguished from the latter by the following points: The distal end of male palpal conductor is unique as shown in Fig. 1, E and the female chelicera is not so long. Mr. TANIKAWA (pers. comm.) collected all these specimens by beating from shrubs of broad-leaved evergreen trees along a pass in the forest. The life behavior is unknown.

摘　　要

沖縄県西表島産のアシナガグモ科アシナガグモ属の1新種を *Tetragnatha iriomotensis*（イリオモテアシナガグモ）の名のもとに記載した．この種は *Tetragnatha maxillosa* THORELL，1875（ヤサガタアシナガグモ）に似るが雄の触肢の指示器の形態により容易に区別できる．また後者の雌の上顎は長大であるが，本種の雌の上顎はあまり長大ではない．

References

OKUMA, C., 1988. A revision of the genus *Tetragnatha* LATREILLE (Araneae, Tetragnathidae) of Asia, Part I and II. *J. Fac. Agr., Kyushu Univ.,* 32(3•4): 165–181 and 183–213.